## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:** 

1-30.	(aamaal	1.41
1-3U.	(cancel	ieu)

31.	Plant cells, comprising heterologous DNA encoding an EG307 polypeptide,
wherein said p	olypeptide is capable of increasing the yield of a plant, wherein said polypeptide
selected from t	the group consisting of:
	a) a polypeptide encoded by a polynucleotide selected from the group
consisting of S	EQ ID NO:4, SEQ ID NO:5, SEQ ID NO: 91, SEQ ID NO:33, SEQ ID NO:34,
and SEQ ID N	<u>O:35</u> ;
	b) a polypeptide encoded by a polynucleotide having at least 84% sequence
identity to a po	olynucleotide in a);
	c) a polypeptide comprising SEQ ID NO:6 or SEQ ID NO:36; and
	d) a polypeptide having at least 84% sequence identity to a polypeptide of c)
32. according to cl	A propagation material of a transgenic plant comprising the transgenic plant cell aim 31.
33.	A transgenic plant containing heterologous DNA which encodes an EG307
polypeptide the	at is expressed in plant tissue, wherein said polypeptide increases the yield of the
plant, and said	polypeptide selected from the group consisting of:
	a) a polypeptide encoded by a polynucleotide selected from the group
consisting of S	EQ ID NO:4, SEQ ID NO:5, SEQ ID NO: 91, SEQ ID NO:33, SEQ ID NO:34,
and SEQ ID N	O:35;
	b) a polypeptide encoded by a polynucleotide having at least 84% sequence
identity to a po	olynucleotide in a);
	c) a polypeptide comprising SEQ ID NO:6 or SEQ ID NO:36; and
	d) a polypeptide having at least 84% sequence identity to a polypeptide of c
and which con	fers substantially the same yield as the polypeptide of c).

34.	An isolated polynucleotide which includes a promoter operably linked to a
polynucleotic	de that encodes the an EG307 gene in plant tissue, said polynucleotide selected from
the group con	nsisting of:
	a) a polynucleotide selected from the group consisting of SEQ ID NO:4,
SEQ ID NO:	5, SEQ ID NO: 91, SEQ ID NO:33, SEQ ID NO:34, and SEQ ID NO:35;
	b) a polynucleotide having at least 84% sequence identity to a polynucleotide
<u>of a),</u>	
	c) a polynucleotide encoding a polypeptide comprising SEQ ID NO: 6; and
	d) a polynucleotide encoding a polypeptide comprising a protein having at
least 84% sec	quence identity to SEQ ID NO: 6, and which confers substantially the same yield as
the polypepti	de of c).
35.	The isolated polynucleotide of Claim 34, wherein said polynucleotide is a
	polynucleotide.
	·
36.	(currently amended) The method polynucleotide of claim 34, wherein the
promoter is the	ne promoter native to an EG307 gene.
37-44	. (cancelled).
45.	A transfected host cell comprising a host cell transfected with a construct
comprising a	promoter, enhancer or intron polynucleotide from an evolutionarily significant
EG307 polyn	ucleotide or any combination thereof, operably linked to a polynucleotide encoding
a reporter pro	tein, wherein said EG307 polynucleotide is selected from the group consisting of:
	a) a polynucleotide comprising selected from the group consisting of SEQ II
NO:4, SEQ I	D NO:5, SEQ ID NO: 91, SEQ ID NO:33, SEQ ID NO:34, and SEQ ID NO:35;
	b) a polynucleotide having at least 84% sequence identity to a polynucleotid
of a),	
	c) a polynucleotide encoding a polypeptide comprising SEQ ID NO: 6; and
	d) a polynucleotide encoding a polypeptide comprising a protein having at
least 84% sec	uence identity to SEQ ID NO: 6, and which confers substantially the same yield as
the polypeptic	de of c).

46. A method of identifying an ager	nt which may modulate yield, said method		
comprising contacting at least one candidate ag	ent with a plant or cell comprising an EG307		
gene, wherein the agent is identified by its abili	ty to modulate yield, and wherein said EG307		
gene comprises a polynucleotide selected from	the group consisting of:		
a) a polynucleotide selected	from the group consisting of SEQ ID NO:4,		
SEQ ID NO:5, SEQ ID NO: 91, SEQ ID NO:33	3, SEQ ID NO:34, and SEQ ID NO:35;		
b) a polynucleotide having	at least 84% sequence identity to a polynucleotide		
<u>of a),</u>			
c) a polynucleotide encodin	g a polypeptide comprising SEQ ID NO: 6; and		
d) a polynucleotide encodin	g a polypeptide comprising a protein having at		
least 84% sequence identity to SEQ ID NO: 6,	and which confers substantially the same yield as		
the polypeptide of c).			
	in the plant or cell is transfected with a		
polynucleotide of a), b), c), or d) encoding and	<del>EG307 gene</del> .		
48. (cancelled)	÷		
49. The method of claim 46, wherein	n said identified agent modulates yield by		
modulating a function of the polynucleotide end			
modulating a function of the polyndereonde en	souring the polypephae.		
50. The method of claim 46, wherein	n said identified agent modulates yield by		
modulating a function of the polypeptide.			
51. (cancelled)			
52. (cancelled)			
53 (currently amended) A method of r	producing an EG307 polypeptide comprising:		
•	53. (currently amended) A method of producing an EG307 polypeptide comprising: a) providing a cell transfected with a polynucleotide encoding an EG307 polypeptide		
positioned for expression in the cell;	ijiladiodido dilodilig ali 2000, polijpopilad		
b) culturing the transfected cell under conditions for expressing the polynucleotide; and			
· · · · · · · ·			
c) isolating the EG307 polypeptide, wherein said polypeptide is selected from the group			

consisting of:

	i)	a polypeptide encoded by a polynucleotide selected from the group
consisting of	SEQ ID	NO:4, SEQ ID NO:5, SEQ ID NO: 91, SEQ ID NO:33, SEQ ID NO:34,
and SEQ ID 1	NO:35;	
	ii)	a polypeptide encoded by a polynucleotide having at least 84% sequence
identity to a p	olynucle	eotide in i);
	iii)	a polypeptide comprising SEQ ID NO:6 or SEQ ID NO:36; and
	iv)	a polypeptide having at least 84% sequence identity to a polypeptide of
<u>iii)</u> .		

## 54-78. (cancelled)

79. (new) A method of detecting a yield-increasing gene in a plant cell comprising contacting the EG307 gene or a portion thereof greater than 12 nucleotides length with a preparation of nucleic acids from the plant cell under hybridization conditions providing detection of nucleic acid molecule sequences having about 50% or greater sequence identity to the a nucleic acid molecule selected from the group consisting of SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:91, SEQ ID NO:33, SEQ ID NO:34, and SEQ ID NO:35.